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FINNSHEEP

DASE PRAIRIE ANIMAL BREEDING ENTERPRISES LOO

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largely dominated by livestock husbandry, a great part of its concentrates, or used for grazing. Because of the country's situation in the north of Europe the pasture season for sheep the end of October (or, September). During the rest of the Down to our day, Finland has retained an industrial structure arable land being devoted to the production of roughage and extends over no more than about five months in its southern, and four months in its northern, sections. The pasture season begins in late May or in early June, and from then lasts until year the sheep are kept indoors, when they are chiefly fed hay, and before lambing, small quantities of concentrated food. The most usual time for lambing is March to April. Until the beginning of the grazing season, the primary nourishment of lambs is the ewes' milk, and consequently the ewes are then given more and stronger food, to enable lambs to duction of the ewes continues on the pasture, lambs sucking up to four of five months old and grazing besides, until, late reach satisfactory growth standards. The copious milk proin summer or early in autumn, they show live weights of 30 to 40 kilogram, at which they are ready for slaughtering. Relatively few animals are left to the indoor feeding season, highly prolific ewes, however, are kept for the subsequent spring, to produce a great number of lambs.

The Finnsheep is a breed developed from stock that has existed in Finland of old, remaining unmixed with other breeds. What with austere environmental conditions and what

with scanty feeding, these sheep have spontaneously become hardy animals whose requirements are small. They belong to the racial type of »Scandinavian Shorttails» which is marked by a short woolless tail, short ears, and a head covered only by guard hair. — The flocks are small in Finland, comprising the sheep in flocks with improved animals are treble their is easy, difficulties in parturition occurring but seldom as compared with the case of many other breeds. — Sheep sheds are cold, and the sheep are given opportunity during the winter, too, of outdoor exercise in yards where they move 5 to 50 ewes each, but thanks to the breed's high prolificacy initial number by the summer, and still more. about in the snow.

Systematic improvement of the Finnsheep breed was begun in satisfy fixed requirements of performance being entered in 1918, the year when the Finnish Sheep Breeders' Association (Lampaanjalostusyhdistys) was founded as a directive centre of all sheep improvement done in this country. Since then, production recording has been carried out, those sheep that the Flock Book on the basis of their records. Thus by purposefully selecting, for decades, the animals with a view to an increase of their size and to the improvement of wool quality and quantity, as well as by paying attention to degree of prolificacy, growth rate and ewes' milking qualities, a sound hardy breed of reliable transmitters of many properties has been moulded — the improved Finnish Native Sheep or

PROLIFICACY

The Finnsheep breed is extraordinarily prolific. When starting their work, the breeders set themselves the task of raising prolificacy, and at that time laid down the following requirements for entry in the Flock Book:

1st Prolificacy Class: three times triplets, or twice, quadruplets

: once triplets, or regularly, twins

2nd

3rd * twice twins, or twins at first lambing

Being continued from generation to generation by such rigorous principles, the selection has resulted in stabilizing the Finnish sheep's naturally high prolificacy. This purposeful selection work may indeed be given the credit for the fact, that high prolificacy has become one of the qualities in Finnsheep that are most reliably transmitted, an average of 2—2,5 lambs being born per ewe in improved flocks. The



Ewe KISA, N:o 2247, together with its four lambs, in the summer of 1964.

lowest requirement is at present regular twin births. Triplets are born frequently, four to five lambs per litter occur time and again, and sometimes the number is still greater.

FINNSHEEP WITH HIGH PROLIFICACY

							Num	per o	f lamb	Number of lambs born	_					
Name and Flock Book number						Age	Age of ewe, in		years						rI.	Ave-
	1	2	3	4	5	9	7	8	6	10	11	12	13	14	all	rage
Lipas 12345	1	ಣ	2	က	2	2	4	ಣ	ಣ	ಣ	ಣ	က	2	_	34	2,6
13305	2	4	2	0	ಣ	20	ಣ	4	4	4	2	0	4	ಣ	36	2,8
Nella 13884	2	က	ಣ	5	4	4	4	က	70	4	4	4			42	3,5
9059	-	2	က	ಣ	ಣ	က	က	4	0	ಣ	ಣ	2			53	2,6
13004	2	7	2	က	ಣ	ಣ	က	က	ಣ	2	ಣ				59	2,6
Nippa 15588 V	. [က	9	2	ಣ	ಣ	က	2	ಣ	2	2				53	2,9
I 14478	1	က	ಣ	ಣ	ಣ	4	က	က	ಣ	2	ಣ				30	3,0
Tepsu 11289 P	-	က	2	ಣ	4	4	ಯ	4	ಣ	70				, -	31	3,4
Lelu 9279 V	2	က	ಣ	ಣ	4	20	4	2	2	23					30	3,0
Soma 12031	-	4	4	ಣ	2	4	ಣ	20	9						32	3,6
u 11291 V	1	7	က	4	4	ಣ	4	ಣ	. 4						27	3,4
Elvi 15828	1	က	က	ಣ	က	ಣ	ಣ	ಣ	4						25	3,1
Musta 15982 P	ಣ	ಚ	ಣ	4	4	4	2	က	2						28	3,1
Sohvi 15071 V		7.0	7	4	4	9	22	4							32	4,6
17917	_	2	2	9	4	4									22	3,7
а 18469	4	4	4	4	5										17	4,2
Anu 19173	23	4	7.0	70											16	4,0

DATA ON PROLIFICACY IN SOME FINNSHEEP FLOCKS

~															
Otava School Farm, Mikkeli	Otto Sainio, Kokemäki	Arvo Kyyhkynen, Mäntyharju	Anna Lisa Brander, Urjala	Antti Ahti, Vesilahti	Hovila School Farm, Nurmes	Pirkko Anttila, Pöytyä	W.A. Westerstråhle, Rantasalmi	Jukka Jalkanen, Rautalampi	Hannes Huhtinen, Haukivuori	Aarne Rulja, Luopioinen	Grazing Trial Station, Mouhi- järvi	Elsa Rutanen, Viitasaari	Eero Yliviikari, Karkku	Ilmari Tarkka, Parolannummi	Farmer
1963 1964	1963 1964	1963 1964	1963 1964	1963 1964	1963 1964	1963 1964	1963 1964	1963	1963 1964	1963 1964	1962 1963 1964	1963 1964	1963 1964	1963 1964	Year
4 10	6	10	12	18	13	9	13	18	20	16 20	19 19 25	27 33	29 34	34 45	Number of sheep to the ram
11	11	٦١	-1-1	-[-]-	11	ı. l	11.	11	1	11	ا دی ا	П	1-1	1-1-2	Number of dry ewes
17 H 3	23	18 300 18	28 39 %	36	28 %	425 425	37 46	28 57	23	45 50	60 30 41 60	66 81	93	98 98	Number of lambs born
11.	11	2	1 4	1 -	ω	1 2	2	⊢ :	ω	22 11	س ا س	_ 2		104	Number of 1-lamb litters
	22.23	10	6	12 4	14		10	12	16	6 14	8 18	24 34	16 22	62 62	Number of 2-lamb litters
9	122	10	21 27	24	18	12 9	15 18	15 18	12	30	24 21 27	36 42	57	30	Number of 3-lamb litters
12	1 4	4	12	12 8	∞ 4ı	20	∞ ∞	20	∞	00 44	20 8 12	44	20 8	4.00	Number of 4-lamb litters
] or	ਹਾ ਹਾ					OT 01	10	51	ਹਾ ਹਾ		111		on	10	Number of 5-lamb litters
6	3	***					6				6				Number of 6-lamb litters
7			11-						- 4	7	7				Number of 7-lamb litters



and over 100 kg, respectively. 80 kg each. For rams, the corresponding figures are 80—90 kg. of Finnsheep. Given adequate food conditions, mature ewes admitted, selection being continued from generation to gewill have a weight of 55-65 kg — the largest ones up to neration, it has been possible to increase the hereditary size fixed weights have been demanded for entry in the Flock ewes weighing 40-50 kg, and rams, 50-70 kg, each. Certain Originally, the Finnish indigenous sheep was fairly small with increase the size of animals for improving meat production Book, and as only by far the most large-sized individuals are of the objectives of Finnsheep breeding has been to

AVERAGING NOT LESS THAN 60 KG FLOCKS WITH OVER 2 YEARS OLD

ujala School Farm, Lahti	ukka Jalkanen, Rautalampi	rjö Tamminen, Koski Hl	V. A. Westerstråhle, Rantasalmi	Iartti Suntela, Asikkala	razing Trial Station, Mouhijärvi	alikainen Country Estate, Somerniemi	P. E.
OT.	9	11	14	16	24	35	Ewes No.
65	71	63	69	62	66	63	Average Variation weight, of kg weigh
58-72	66-76	48-72	58—80	53—71	48-87	50-73	Variation of weigh

A U M M M M M

CONFORMATION

content of the thighs which formerly was poor well as a broad chest. Special attention is given the muscle Showing less muscle than the conformation of many sheep today, many individuals have wide loins and hind quarters as to develop — is rapidly changing for the better. As early as breed — muscle content being a character the improvers wish breeds reared for meat production, that of the Finnsheep

WOOL

of 4—5 kg is obtained and that of its five to six months old lambs an annual output year. When counting up the amount of wool yielded by a ewe on an average produce annually about 2,5 kg of wool, and sheep are shorn twice a year, in spring and in autumn. Ewes with. Finnish wool thus stands for sound quality. Its fineness there are individuals that even reach figures such as 4 kg a varies from 48 types in that it is particularly lustrous, elastic, soft, and firm Kemp is rare, and medullated wool, likewise, very little met Finnsheep wool differs essentially from the commonest wool to 58 S°. Scouring loss is about 30 %. The

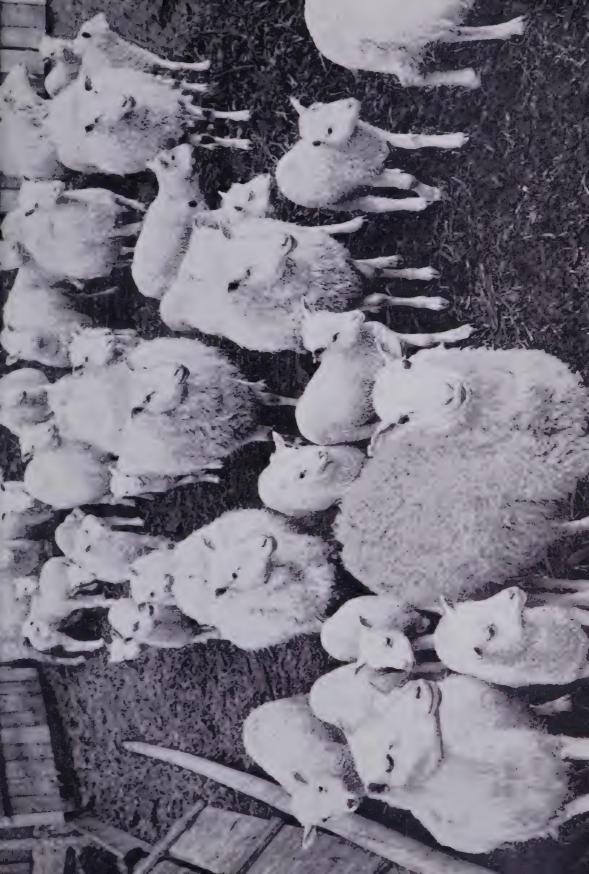


LAMB PRODUCTION

To render utilization of prolificacy possible, the sheep in general must be characterized by hereditary rapidity of growth, and the ewes by good mothering, as well as milking, qualities. These factors combine decisively to influence lamb production, in view of which Finnsheep breeders have been

regularly calculating the aggregate weight of lambs per ewe at 5 months old. Finnsheep ewes that are good milkers invariably nurse two to three lambs and even more, so when adequately fed they will reach a large lamb production, which appears from the following table:

96							135	95	89	108	52		Lipsa 15769 P
83		4	2	-	-	79	87	90	62	103	75	1	Elisa 18015
82					78	92	80	125	97	71	59	63	Lilli 14945
87					85	88	71	115	103	84	66	72	Lulu 14946
86				V.	114.	69	126	53	89	82	70	1	
.93				126	88	118	71	78	83	120	57	1	Lykky 15770 V
106		, i		53	71	39	147	156	130	142	107	35	Kristiina 16309 V
86			69	72	115	74	60	92	98	78	48	1	Pili 16632 V
99			78	78	114	107	120	117	99	90	92	29	Pinna 15681 V
91	75	62	110	118	97	115	88	53	79	109	72	1	Hupa 13566 V
average	12	11	10	9	000	7	6	57	4	ဃ	2	1	
At 2 years old on an			d	include	arlings	kg, yea	ps, in	nb cro	Annual lamb crops, in kg, yearlings included	Anı			Name of ewe and



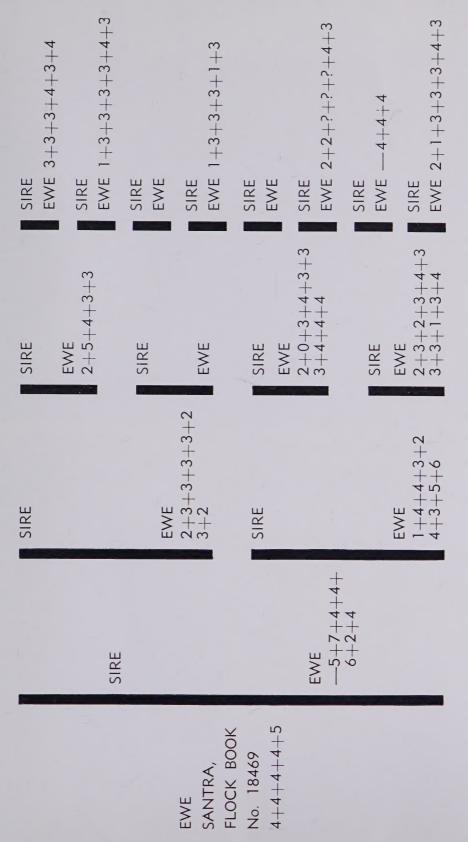
RELIABILITY OF TRANSMISSION — PRODUCTION RECORDING

The improvement of Finnsheep for breeding is based upon complete production recording. With all herds designed for improvement these measures are adopted: in autumn, ewes and rams are weighed, and so is the wool from each shearing; lambs born are numbered with earmarks; their respective sex, the litter size at birth, and their weight at five months

old are noted down. In that manner it is possible, when undertaking to select and procure sheep for improvement, to obtain full data on performance for many generations — both those upwards, and those collaterally, related — by which the degree of reliability in transmission can be assessed in each case.

PERFORMANCES RECORDED IN 1964 — MR YRJÖ TAMMINEN, KOSKI HL.

									_
4		c	∞ +O		0	<i>F</i> (Ear- mark No.		
14607 11131	V:: 909/1	Tarlot Topon	V:::: 90220	y a cycle of the second	Kupi 4322		Name and Flock Book No.		
Tago	6/4	TOOC	5/4	8/3 1961			Time	Born	R
c	2	t	3	•	4		Size of litter	rn	a m s
Tytti 20315	Masa 4318	Pella 18131	Masa 4318	Piste 17030	770£ pednyr	Kunes 4899	Parents		and Ewes
72		65		2 - 92		Autun weigh Sept.	nn it, 19		
20/10	13/3	20/10	12/3	20/10	F/17	91/4	Time of shear- ing		
1,6	1,2	2,0	1,3	1,9	1,1	17	At a time	W o o 1	
2,8	-	3,30		3,60			In all		
±/01	10/4	1/6	0 / /				Date	•	
ω		Ç.	.ಎ	w			born	Lambs	
లు		c	د.	Sire of lar			vived		luu l
♀ 127 ♂ 128 ♂ 126		<u> </u>	♀ 119 ○ 190	f lamb			Sex and num- ber		Lamb
FOT	150	160	151		mbs born in 1964		Dura- tion of growth, days	Autı	T/A
ಜ್ಞ ೪	ည္က ည	35	37. 43		in 196 –		Indiv. weight	ımn wei Sept. 19	
103		113			4		In all	weight,	
97		109					ewe in 5 months	of lambs	Weight



The figures denote the number of lambs yielded by ewes, yearlings included.



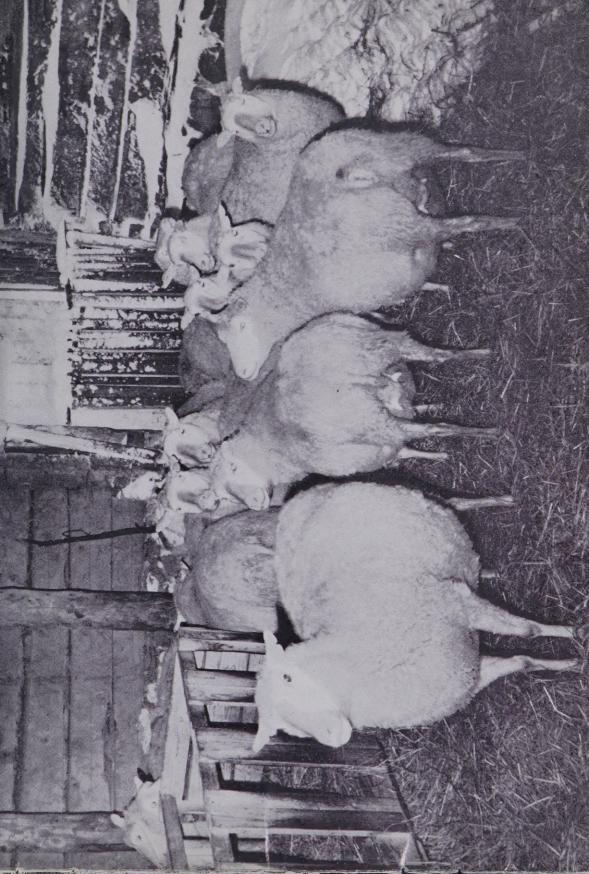
Finnish ram PATU, Flock-Book number 4397.

The improvement of Finnsheep is directed by the country-wide organization of sheep breeders in Finland, the Finnish Sheep Breeders' Association (Lampaanjalostusyhdistys). In their office, which is in Helsinki, they keep the performance

PROMOTING SHEEP HUSBANDRY AND DI-RECTING THE IMPROVEMENT OF NATIVE SHEEP IN FINLAND

data annually collected from the several flocks, and this material is accessible to investigators. The Association thus are informed about the most valuable strains and individuals existing in the country. They have divided the country into districts, each to be superintended by a functionary of theirs who every year visits breeders to register sheep in the Flock Book as well as to give professional recommendations and directions.

Thanks to this intensive form of activities, the Finnish Sheep Breeders' Association from its Head Office, as well as each of their functionaries within his proper district, keep absolute control of the improvement material, and are in the position, whenever they desire, to bring such persons as stand in need of sheep for breeding into contact with owners of the best flocks, or, by request, to arrange for sales of animals. The Association, as a matter of fact, have by now effected numerous transactions in animals for breeding, an activity concentrated especially on the autumn season when it is possible to select the best lambs of about five to six months old from among those born in the spring. For each animal procured by their agency, the Association furnish a complete pedigree in which performance data for its ancestors are included.



Prairie Animal Breeding

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